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RAW SEQUENCE LISTING
PATENT APPLICATION US/09/473,551

DATE: 01/24/2000
TIME: 11:49:59

Input Set: I473551.RAW

This Raw Listing contains the General Information
Section and up to first 5 pages.

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1 <110> APPLICANT: MILBRANDT, Jeffrey D.
2 BALOH, Robert H.
3 <120> TITLE OF INVENTION: GFR-alpha-1-RET Specific Agonists and Methods Therefor
4 <130> FILE REFERENCE: 6029-9879
5 <140> CURRENT APPLICATION NUMBER: US/09/473,551
6 <141> CURRENT FILING DATE: 1999-12-28
7 <160> NUMBER OF SEQ ID NOS: 28
8 <170> SOFTWARE: PatentIn Ver. 2.0
9 <210> SEQ ID NO 1
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12 <213> ORGANISM: Homo sapiens
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17 20 25 30
18 Pro Arg Gly Ala Arg Thr Gln His Gly Leu Ala Leu Ala Arg Leu Gln
19 35 40 45
20 Gly Gln Gly Arg Ala His Gly Gly Pro Cys Cys Arg Pro Thr Arg Tyr
21 50 55 60
22 Thr Asp Val Ala Phe Leu Asp Asp Arg His Arg Trp Gln Arg Leu Pro
23 65 70 75 80
24 Gln Leu Ser Ala Ala Ala Cys Gly Cys
25 85
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27 <211> LENGTH: 89
28 <212> TYPE: PRT
29 <213> ORGANISM: Mouse
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32 1 5 10 15
33 Tyr Ala Ser Glu Glu Lys Val Ile Phe Arg Tyr Cys Ala Gly Ser Cys
34 20 25 30
35 Pro Gln Glu Ala Arg Thr Gln His Ser Leu Val Leu Ala Arg Leu Arg
36 35 40 45
37 Gly Arg Gly Arg Ala His Gly Arg Pro Cys Cys Gln Pro Thr Ser Tyr
38 50 55 60
39 Ala Asp Val Thr Phe Leu Asp Asp Gln His His Trp Gln Gln Leu Pro
40 65 70 75 80
41 Gln Leu Ser Ala Ala Ala Cys Gly Cys
42 85
43 <210> SEQ ID NO 3
44 <211> LENGTH: 89

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45 <212> TYPE: PRT
46 <213> ORGANISM: RAT
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50   Tyr Ala Ser Glu Glu Lys Ile Ile Phe Arg Tyr Cys Ala Gly Ser Cys
51           20           25           30
52   Pro Gln Glu Val Arg Thr Gln His Ser Leu Val Leu Ala Arg Leu Arg
53           35           40           45
54   Gly Gln Gly Arg Ala His Gly Arg Pro Cys Cys Gln Pro Thr Ser Tyr
55           50           55           60
56   Ala Asp Val Thr Phe Leu Asp Asp His His His Trp Gln Gln Leu Pro
57           65           70           75           80
58   Gln Leu Ser Ala Ala Ala Cys Gly Cys
59           85
60 <210> SEQ ID NO 4
61 <211> LENGTH: 93
62 <212> TYPE: PRT
63 <213> ORGANISM: Homo sapiens
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66     1           5           10           15
67   Tyr Glu Thr Lys Glu Glu Leu Ile Phe Arg Tyr Cys Ser Gly Ser Cys
68           20           25           30
69   Asp Ala Ala Glu Thr Thr Tyr Asp Lys Ile Leu Lys Asn Leu Ser Arg
70           35           40           45
71   Asn Arg Arg Leu Val Ser Asp Lys Val Gly Gln Ala Cys Cys Arg Pro
72           50           55           60
73   Ile Ala Phe Asp Asp Asp Leu Ser Phe Leu Asp Asp Asn Leu Val Tyr
74           65           70           75           80
75   His Ile Leu Arg Lys His Ser Ala Lys Arg Cys Gly Cys
76           85           90
77 <210> SEQ ID NO 5
78 <211> LENGTH: 93
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80 <213> ORGANISM: Mouse
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82   Cys Val Leu Thr Ala Ile His Leu Asn Val Thr Asp Leu Gly Leu Gly
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84   Tyr Glu Thr Lys Glu Glu Leu Ile Phe Arg Tyr Cys Ser Gly Ser Cys
85           20           25           30
86   Glu Ser Ala Glu Thr Met Tyr Asp Lys Ile Leu Lys Asn Leu Ser Arg
87           35           40           45
88   Ser Arg Arg Leu Thr Ser Asp Lys Val Gly Gln Ala Cys Cys Arg Pro
89           50           55           60
90   Val Ala Phe Asp Asp Asp Leu Ser Phe Leu Asp Asp Asn Leu Val Tyr
91           65           70           75           80
92   His Ile Leu Arg Lys His Ser Ala Lys Arg Cys Gly Cys
93           85           90
94 <210> SEQ ID NO 6

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97 <213> ORGANISM: RAT
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101   Tyr Glu Thr Lys Glu Glu Leu Ile Phe Arg Tyr Cys Ser Gly Ser Cys
102          20          25          30
103   Glu Ala Ala Glu Thr Met Tyr Asp Lys Ile Leu Lys Asn Leu Ser Arg
104          35          40          45
105   Ser Arg Arg Leu Thr Ser Asp Lys Val Gly Gln Ala Cys Cys Arg Pro
106          50          55          60
107   Val Ala Phe Asp Asp Asp Leu Ser Phe Leu Asp Asp Ser Leu Val Tyr
108          65          70          75          80
109   His Ile Leu Arg Lys His Ser Ala Lys Arg Cys Gly Cys
110          85          90
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117      1          5          10          15
118   Tyr Ala Ser Asp Glu Thr Val Leu Phe Arg Tyr Cys Ala Gly Ala Cys
119          20          25          30
120   Glu Ala Ala Ala Arg Val Tyr Asp Leu Gly Leu Arg Arg Leu Arg Gln
121          35          40          45
122   Arg Arg Arg Leu Arg Arg Glu Arg Val Arg Ala Gln Pro Cys Cys Arg
123          50          55          60
124   Pro Thr Ala Tyr Glu Asp Glu Val Ser Phe Leu Asp Ala His Ser Arg
125          65          70          75          80
126   Tyr His Thr Val His Glu Leu Ser Ala Arg Glu Cys Ala Cys
127          85          90
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132 <400> SEQUENCE: 8
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134      1          5          10          15
135   Tyr Thr Ser Asp Glu Thr Val Leu Phe Arg Tyr Cys Ala Gly Ala Cys
136          20          25          30
137   Glu Ala Ala Ile Arg Ile Tyr Asp Leu Gly Leu Arg Arg Leu Arg Gln
138          35          40          45
139   Arg Arg Arg Val Arg Arg Glu Arg Ala Arg Ala His Pro Cys Cys Arg
140          50          55          60
141   Pro Thr Ala Tyr Glu Asp Glu Val Ser Phe Leu Asp Val His Ser Arg
142          65          70          75          80
143   Tyr His Thr Leu Gln Glu Leu Ser Ala Arg Glu Cys Ala Cys
144          85          90

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152   His Arg Ser Asp Glu Leu Val Arg Phe Arg Phe Cys Ser Gly Ser Cys
153           20           25           30
154   Arg Arg Ala Arg Ser Pro His Asp Leu Ser Leu Ala Ser Leu Leu Gly
155           35           40           45
156   Ala Gly Ala Leu Arg Pro Pro Pro Gly Ser Arg Pro Val Ser Gln Pro
157           50           55           60
158   Cys Cys Arg Pro Thr Arg Tyr Glu Ala Val Ser Phe Met Asp Val Asn
159           65           70           75           80
160   Ser Thr Trp Arg Thr Val Asp Arg Leu Ser Ala Thr Ala Cys Gly Cys
161           85           90           95
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164 <212> TYPE: PRT
165 <213> ORGANISM: Mouse
166 <400> SEQUENCE: 10
167   Cys Arg Leu Arg Ser Gln Leu Val Pro Val Ser Ala Leu Gly Leu Gly
168     1           5           10           15
169   His Ser Ser Asp Glu Leu Ile Arg Phe Arg Phe Cys Ser Gly Ser Cys
170           20           25           30
171   Arg Arg Ala Arg Ser Gln His Asp Leu Ser Leu Ala Ser Leu Leu Gly
172           35           40           45
173   Ala Gly Ala Leu Arg Ser Pro Pro Gly Ser Arg Pro Ile Ser Gln Pro
174           50           55           60
175   Cys Cys Arg Pro Thr Arg Tyr Glu Ala Val Ser Phe Met Asp Val Asn
176           65           70           75           80
177   Ser Thr Trp Arg Thr Val Asp His Leu Ser Ala Thr Ala Cys Gly Cys
178           85           90           95
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186   Lys Gly Ser Cys Arg Leu Trp Ser Leu Thr Leu Pro Val Ala Glu Leu
187           20           25           30
188   Gly Leu Gly Tyr Ala Ser Glu Glu Lys Val Ile Phe Arg Tyr Cys Ala
189           35           40           45
190   Gly Ser Cys Pro Gln Glu Ala Arg Thr Gln His Ser Leu Val Leu Ala
191           50           55           60
192   Arg Leu Arg Gly Arg Gly Arg Ala His Gly Arg Pro Cys Cys Gln Pro
193           65           70           75           80
194   Thr Ala Phe Asp Asp Asp Val Thr Phe Leu Asp Asp Gln His His Tyr

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197                      100                      105
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201 <213> ORGANISM: MURINE
202 <400> SEQUENCE: 12
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204          1                      5                      10                      15
205      Tyr Ala Ser Glu Glu Lys Val Ile Phe Arg Tyr Cys Ala Gly Ser Cys
206                      20                      25                      30
207      Pro Gln Glu Ala Arg Thr Gln His Ser Leu Val Leu Ala Arg Leu Arg
208                      35                      40                      45
209      Gly Arg Gly Arg Ala His Gly Arg Pro Cys Cys Gln Pro Thr Ala Phe
210          50                      55                      60
211      Asp Asp Asp Val Thr Phe Leu Asp Asp Gln His His Tyr His Ile Leu
212          65                      70                      75                      80
213      Arg Lys His Ser Ala Ala Ala Cys Gly Cys
214                      85                      90
215 <210> SEQ ID NO 13
216 <211> LENGTH: 109
217 <212> TYPE: PRT
218 <213> ORGANISM: Mouse
219 <400> SEQUENCE: 13
220      Ala Leu Ala His His His His His His Asp Tyr Lys Asp Asp Asp Asp
221          1                      5                      10                      15
222      Lys Gly Ser Cys Arg Leu Trp Ser Leu Thr Leu Pro Val Ala Glu Leu
223                      20                      25                      30
224      Gly Leu Gly Tyr Ala Ser Glu Glu Lys Val Ile Phe Arg Tyr Cys Ala
225                      35                      40                      45
226      Gly Ser Cys Pro Gln Glu Ala Arg Thr Gln His Ser Leu Val Leu Ala
227          50                      55                      60
228      Arg Leu Arg Gly Arg Gly Arg Ala His Gly Arg Pro Cys Cys Gln Pro
229          65                      70                      75                      80
230      Thr Ala Tyr Glu Asp Glu Val Thr Phe Leu Asp Asp Gln His His Tyr
231                      85                      90                      95
232      His Thr Leu Gln Glu Leu Ser Ala Ala Ala Cys Gly Cys
233                      100                      105
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236 <212> TYPE: PRT
237 <213> ORGANISM: Mouse
238 <400> SEQUENCE: 14
239      Cys Arg Leu Trp Ser Leu Thr Leu Pro Val Ala Glu Leu Gly Leu Gly
240          1                      5                      10                      15
241      Tyr Ala Ser Glu Glu Lys Val Ile Phe Arg Tyr Cys Ala Gly Ser Cys
242                      20                      25                      30
243      Pro Gln Glu Ala Arg Thr Gln His Ser Leu Val Leu Ala Arg Leu Arg
244          35                      40                      45

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VERIFICATION SUMMARY
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